

Derek Ni

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<https://derekni.com> | <https://github.com/derekni>

Education

Cornell University

B.S. Computer Science; GPA: 4.13

Ithaca, NY

Expected May 2022

Courses: Object Oriented Programming and Data Structures, Discrete Structures, Data Structures and Functional Programming, Intro to Backend Development, Multivariable Calculus, Linear Algebra, Basic Engineering Probability and Statistics

Thomas Jefferson High School for Science and Technology

GPA: 4.48 (weighted), 3.88 (unweighted); SAT: 1580/1600

Alexandria, VA

June 2019

Webmaster of Mobile Apps Club, Captain of Varsity Tennis Team, National AP Scholar, National Merit Finalist

Courses: Mobile App Development, Web App Development, Artificial Intelligence

Work Experience

MITRE

Software Engineer Intern

McLean, VA

May 2020 - August 2020

Wrote Python and shell scripts to evaluate results from 5 synthetic audio machine learning models, tested audio identification on real and synthetic audio, and generated synthetic images using GANs.

Cornell University

CS 2110 Consultant

Ithaca, NY

August 2020 - Present

Host weekly office hours to help students with object oriented programming and give feedback to students on coding assignments, quizzes and exams.

Projects

Jimmy Jumper

A mobile runner game where the player runs and jumps on platforms in the sky. Coded using C# in Unity.

Johnny Jumper

A mobile jump game where the player jumps on platforms to reach the sky. Coded using JavaScript with Phaser.

Othello AI

Python program that evaluated future board states using varying heuristics to choose the best move to make.

TaskTime

Productivity app to motivate users to complete to-dos through a points system. Coded using Swift in XCode.

Organizations

Cornell ACSU

Academic Officer

Ithaca, NY

October 2019 - Present

Organize and host on-campus academic events like mock interviews and coding workshops.

Southgate GIVE

Center Manager

Reston, VA

September 2015 - June 2019

Managed scheduling, communication and tutoring for tutoring program at local community center.

Skills & Interests

Skills: Python, Java, C#, Swift, JavaScript, HTML and SQL

Interests: Reading, tennis, piano, podcasts and running